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Company Objective

Recovering Valuable Cathode Metals From Spent Lithium-ion Batteries

American Manganese Inc. | TSX.V: AMY | OTC-US: AMYZF | FSE: 2AM | August 2019
Manganese Miner to Lithium-ion Urban Miner

Patented process (2012) for efficiently recovering electrolytic manganese metals from low grade ores (2-3%) such as the Company’s Artillery Peak Deposit in Arizona.

Contracted Kemetco Research Inc. (April 2016) to extend existing intellectual property on manganese into recycling cathode materials from lithium-ion batteries.

Kemetco successfully recovered 100% of the cathode materials from NMC, NCA, LCO, and LMO chemistries using the novel process.

Five-stage Pilot Plant project commissioned for recycling scrap cathode material from lithium-ion batteries in order to replicate real world, closed-circuit conditions.

Intend to commercialize intellectual property with joint venture partnerships and licensing agreements.
There is an increase in spent lithium-ion battery waste and no efficient method to recover the valuable cathode materials trapped inside. Existing methods are capital intensive and consist of high heat (1,500°C) and harmful emissions with low recovery and purity of cathode materials that aren’t repurposed into new batteries.

That’s equivalent to 152,000 additional vehicles on the road each year

Produces nearly 700,000 tonnes of CO₂ each year
Growing Recycling Opportunity

The need for **recycling is a certainty** and with a sustainable solution it could:

- **Eliminate Waste** by diverting end-of-life lithium-ion batteries from landfills
- **Reduce Mined Raw Materials** by providing recycled materials for the lithium-ion battery supply chain
- **Improve Manufacturing Cost** by recycling cathode scrap for use in future lithium-ion cathode manufacturing
- **Eliminate Carbon Emissions** by utilizing a closed-loop hydrometallurgical process

Planned Battery Manufacturing Capacity by 2028:

1,956,000,000 kWh

20M+ Tesla Model S Battery Packs
All Components Of A Lithium-ion Battery Have Value And Can Be Recovered

Cathode material accounts for more than 50% of the material cost, which can be recovered near 100% by American Manganese.

Remaining material can be sustainably recycled through potential industry partners.
**Cathode-to-Cathode Recycling Process**

- Robust Process
- No Harmful Emissions
- High Recovery and Battery Grade Purity
- Closed-Circuit Hydrometallurgical Process
- Low Energy Consumption and No High Heat

**Inputs:**
- Scrap Lithium-ion Battery Cathode Material

**Outputs:**
- Battery Grade Metal Hydroxide (NMC - 99.93% Purity)
- Battery Grade Lithium Carbonate
Patent No. 10,246,343

United States Patent and Trademark Office granted patent for lithium-ion battery recycling process and recovery of cathode materials on April 2, 2019

Patent No. 10,308,523

United States Patent and Trademark Office granted patent on June 4, 2019 for:

- Recovery of graphite and carbon from ground battery concentrates
- Treatment of fluoride originating from electrolyte solution
- Separation of aluminum from cathode active material
Business Strategy

Create a circular economy for the lithium-ion battery supply chain by recycling cathode manufacturing scrap and end-of-life lithium-ion batteries.

Intend to commercialize intellectual property with joint venture partnerships and licencing agreements with industry leaders.
Financial Model

Potential for highly profitable recycling of thousands of tonnes of existing and commercially available lithium-ion battery cathode scrap material.

Estimated Revenue Based Upon a **50 TPD** Pro-forma Commercial Plant

Assumed **95% Recovery** of Cathode Materials

Reagent Cost Less Than **$1/kg** of Cathode Material Processed
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